

Special Issue

Frontiers in Non-destructive Monitoring for Structural Integrity Assessment and Material Characterization

Message from the Guest Editors

New materials expand the design capabilities of multi-material structures. In view of increasing requirements regarding structural integrity, new assessment methods are required that capture new phenomena and occurring interdependencies, between structures and their materials. Therefore, novel approaches to material characterization and non-destructive monitoring at the material and structural levels can provide a new paradigm of how we understand the structure–property–process (SPP) relations between materials and structures.

Furthermore, the ongoing digitalization combines virtual and experimental testing, conveying new concepts for more efficient testing approaches, and thus brings to the foreground challenges such as the interface between experiment and simulation, material and structure.

This Special Issue aims to encourage authors, from academia and industry, to submit original contributions or review papers on the challenges for novel non-destructive monitoring approaches for structural integrity assessment, as well as the corresponding material characterization.

Please access the link for more details:
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Deadline for manuscript submissions



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